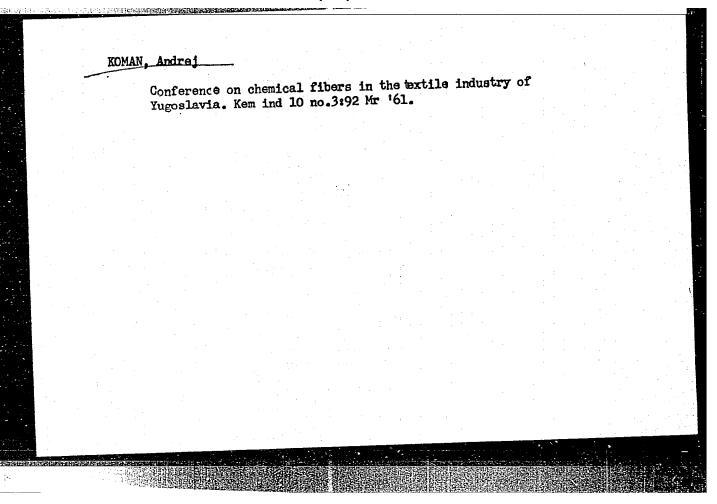
KOMAN, Andrej, tehn. (Zagreb)

Technical consulation of Yugoslav textile workers on the use of polyester fiters in the textile industry. Nova proizv 15 no.5:385-387 0 164.

Consultation on the productivity and quality of Yugoslav spinning and weaving mills. Nova proizv 15 no.5:387-388 0 '64.

KOMAN, Andrej

The second meeting of cotton spinners. Nova proizv no.3/4:236-240 S **163.



FARKAS, Eve; KOMAN, Elisabeth

Artificial hibernation and infectious diseases. Acta paediat. acad. sci. Hung. 2 no.2:99-108 161.

1. Service de pediatrie No.III de l'Hôpital Lazlo, Budapest.
(HIBERNATION, ARTIFICIAL) (COMMUNICABLE DISEASES therapy)

FARKAS, Eva; KOMAN, Elisabeth

Electrocardiographic studies in the postinfectious stage of penicillintreated scarlet fever. Acta pediat. acad. sci. hung. 3 no.4:381-388

1. Second Paediatric Department (Head: Dr. E. Farkas), Laszlo Hospital, Budapest (Director: Dr. J. Roman).

(ELECTROCARDIOGRAPHY) (PENICILLIN)

(SCARLET FEVER)

FARKAS, Eva, dr.; KOMAN, Erzsebet, dr.

Hibernation and infectious diseases. Orv.hetil. 102 no.31:1464-1467 30 J. '61.

1. Budapest Fovarosi Laszlo Korhaz III. sz. Gyermekosztalya.

(HIBERNATION ARTIFICIAL) (COMMUNICABLE DISEASES ther)

KARPINISHAN, K.; KOMAN, K.; KONSTANTINESKU, K.; BADYA, D.

Significance of a mechanical suture in preventing bronchial fistulae following lung resections. Grud. khir. 6 no.1.76-78 Ja-F 164. (MIRA 18:11)

1. Klinika grudnoy khirurgii (zav. - prof. K. Karpinishan) bol'nitsy "Filaret", Bukharest. Adres avtorov: Bukharest, klinika grudnoy khirurgii bol'nitsy "Filaret". Submitted March 25, 1963.

KARPINISHAN, K. [Carpinisan,C], prof., doktor; BCCDAN, Tr. [Bogdan,Traien], kand.med.nauk, doktor; KCMAN,K. [Comen,C], doktor

Decortication of the lung. Vest. khir. 90 no.3:30-35 Mr'63.

(MTRA 16:10)

1. Iz Bukharestskoy kliniki grudnoy khirurgii (dir. - prof. doktor K.Karpinishan).

(LUNGS-DISEASES) (PLEURA-SURGERY)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824020006-9

Definition of the Topological K-Lineal 10

Koman, Milan. Bemerkung zu einer Definition der topologischen K-Lineale. Casopis Pest. Mat. 83 (1959), 155-159. (Czech. Russian and German summaries)

J. Mafik (Casopis Pest. Mat. 79 (1954), 3-40; MR 16, 492) has defined a normed K-lineal (vector lattice) as a K-lineal in which ||a||=|||a||||and 0≤a≤b implies ||a||≥|||b||| Let H be the linear space of all real functions on [0, 1] of the form 1+g, where f is continuous and g vanishes except on a finite set. Let H have the usual linear operations and order, and set ||f+g||=max|(x)|+ ∑o≤a≤ ||x||x||. Then H is a normed K-lineal in which the algebraic and order operations are continuous, but 0≤a≤b does not imply ||a||≤||b||. In fact, there is a neighborhood U of 0 such that for every neighborhood V of 0 there are elements a, b for which 0≤a≤b, b∈V, and a f U. Furthermore, the linear functional f ||f+g||=∑g(x) is continuous, but its positive part f is infinite at 1 (f+(1)=sup f(h)):

E. Hawit (Scattle, Wash.)

25069

S/080/60/033/010/023/029 D216/D306

158540

Mikhail, R., Alexsandru, L., Koman, M., and

Yurchenko, V.

TITLE:

AUTHORS:

Modified polyethylens terephthalate as an

electro-insulating varnish

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960,

2336 - 2340

TEXT: To obtain modified polyethylene terephthalate three routes were taken: 1) Introduction of all components into general reaction; 2) Transesterification of dimethyl terephthalate (DMT) with corresponding glycols, followed by polycondensation (all reagents entering general reaction); 3) Products from transesterification for the given glycol separated and then polycondensed. The basic study was done on polyethylene terephthalate modified with glyce-rol, i.e. the effect of change in (a) molar proportions of components (b) temperature of the reaction and (c) time of reactions.

Card 1/4

25069 S/080/60/033/010/023/029 D216/D306

Modified polyethylene ...

tion, 30 moles of dimethyl terephthalate were used, 50, 60, 65 moles of ethylene glycol and 20, 10, 5 moles of pentaerythrite. On plycondensation of dimethyl terephthalate, ethylene glycol, glycerol and pentaerythrite in proportions 25:50:22:3 respectively and at 190°C for 180 min and at 3 mm Hg, a soluble transparent product was obtained with a melting point of 85° and 350 OH groups. On polycondensation of dimethyl terephthalate, ethylene glycol and glycerol with proportions 40:40:20 at 240°C for 270 min., a transparent soluble product is obtained with a melting point of 95°C and 377 OH groups. Synthetized products had molecular weights from 1200 to 1400 and these were determined by the cryoscopic method, in phenol. Use of these varnishes on copper conductors has given resistance to 5000 volts potential, thermal stability up to 155°C, and good resistance to wear. Especially good results were obtained with the varnish based on polyethylene terephthalate modified with ethylene glycol, glycerol, pentaerythrite. There are 6 figures, 1 table and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc.

X

Card 3/4

Modified polyethylene ... \$\frac{25069}{\\$5080/60/033/010/023/029} \\
ASSOCIATION: Nauchno-issledovatel'skiy khimicheskiy institut Bukharest (Scientific-Research Chemical Institute, Bucharest)

SUBMITTED: February 19, 1960

Card 4/4

ALEKSANDRU, L. [Alexandru, L.]; KOMAN, M. [Coman, M.]; RIZESKU, T. [Rizescu, T.]; POPOVICH, A. [Popovici, A.]

Effect of the nature of stabilizers on the stability of polycaprolactem. Khim.volok no.4:4-8 '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut khimii, Bukharest, Rumynskaya Narodnaya Respublika. (Nylon)

KOMAN, Milan (Praha); ROHLICEK, Jiri (Praha)

"Mathematical methods in economic practice" by Anton Kolsig. Reviewed by Milan Koman and Jiri Rohlicek. Cas pro pest mat 88 no.2:254-256 *63.

1/1 sept. components have tharp borders,

en Micke

:Czechoslovakia Ko m Rounder 74696 CATEGORY No. 1959, : RZKhim., No. ABS. JCUR. :Palo, V., Koman, V., and Hrabe, Z. The Separation of Higher Fatty Acids by Paper ROMTUA Chromatography by Varying the Concentration of INST. TITLE Solvent During Elution *Chem Zvesti, 12, No 9, 525-532 (1958) The authors propose the separation of the higher ORIG. PUB. fatty acids by paper chronatography with continuous variation of the concentration of ABSTRACT the mobile phase. A 50-200 & sample of a mixture of fatty acids (FA) is deposited in the form of a 5% solution in C6 H6 on Whatmann No 3 paper impregnated with a 10% solution of paraffin oil (sp gr 0.880-0.895) in C6 C6. The paper is placed between glass plates and chromatographed for 12 hrs at 20° with 50% CH, COOH; CARD: 1/3 86

PROYED FOR RELEASE AGAM 2000 CIA-RDP86-00513R000824020006-9 CATEGORY

1959, No. ABS. JOUR. : RZKhim., No. 21

74696

AUTHOR IH3T. TITLE

oald. PUB.

ABSTRACT

the concentration of the latter is gradually increased during the run. The chromatograms are dried at 120°, dipped for 45 min in a solution of Cu acetate (20 ml of saturated solution + 240 ml water); this converts the FA spots to the corresponding Cu salts. The excess Cu acetate is rinsed off with water and the chromatogram is treated with 7.5% K. Fe(CN)6 which gives the spots a red-brown color. The following R, values were obtained for the acids listed: erucic 0.02, stearic 0.02, palmitic 0.12, oleic 0.17, myristic

CARD: 2/3

KOMAN, Vaclay

Changes in rape oil fat acids during refining and hydrogenation. Prum potravin 15 no.8:394-395 Ag 164.

1. Slovak Higher School of Technology, Faculty of Chemistry, Bratislava.

MICHALEC, U.; SULC, M.; MESTAN, J.; HALAMA, D.; KOMAN, V.

Lipids in certain pathological conditions. II. Studies on fractions on cholesterol esters in human and animal blood. Sborn. lek. 63 no.4:99-103 factor.

1. Laborator pro metabolismus bikovin a proteosyntezu fakulty vseobecneho lekarstvi University Karlovy v Praze, reditel prof. dr. J.Horejsi, Laborator angiologicka fakulty vseobecneho lekarstvi University Karlovy v Praze, reditel prof. dr. B.Prusik, Slovenska University Karlovy v Praze, reditel prof. dr. B.Prusik, Slovenska vysoka skola technicka, katedra biochemie a mikrobiologie v Bratislave, reditel prof. dr J.Nemec. (CHOLESTEROL blood)

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	Delicion - Brotistava, <u>Caraloga Typetti</u> , do 10, Cet 60, p 650
	Affiliation Department of Sochaical Microbictor and Sichanistry affiliation Department of Sochaical Microbictor and Sichanistry as the Bloved Technical Internation and Analysis of Esta; Co-substitute Outerwination and Analysis of Iso-olute init during Rendening of Sunfavor-seed Oil by
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Akademiya nauk SSSR. Teentral'naya nauchno-isaledovatel'akaya laboratoriya nauk SSSR. Teentral'naya nauchno-isaledovatel'akaya laboratoriya elektrichosikoy obrabotka materialov. Elektroiskrovaya obrabotka metallov (Electric-Spark Machining of Metals) no. 2. Mascov, Izd-vo All SSSR, 1960. 262 pv. Errata alip inserted. (Series: Its: Trudy) 6,000 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Sponsoring Agency: Akademiya nauk SSSR. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei Fech. Ed.: A. P. Uuseva. C. Publishing House: S. K. Noyrhei Fech. Ed.: A. P. Uuseva. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei fech. Ed.: A. P. Uuseva. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei fech. Ed.: A. P. Uuseva. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei fech. Ed.: Ed.: A. P. Uuseva. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei fech. Ed.: Ed.: A. P. Uuseva. Frapp. Ed.: B. R. Lazarenko; Ed. of Publishing House: S. K. Noyrhei fech. Ed.: Ed.: Ed.: A. P. Uuseva.	electric-spark methods in intuinity for interaction developments in the field of electric-spark methods and the automation are discussed, and, for interaction of its and its automation are discussed, and, for interaction of fifteepares the infusity, the technical-sconnaic effectiveness of the process is examined, and the equipment involved tweeness of the process is examined, and the equipment involved selectric-park process and entropy between the parameters of adectric-park process and entropy and automatical electric-park method is aductively. Mentioning account, and electric-spark method is advanced for the curviliness cutting of materials with a 20 to advanced for the curviliness cutting of materials with a 20 to advanced for the curviliness cutting of materials with a 20 to advanced for the curviliness cutting of electric-spark and interest in the field of electric-spark and interest and it failum. These references accompany individual articles.	Zalotykh, B. K., and I. P. Korobova. Selecting Optimum Kegmas for Electric-Spark Machining of Sintered-Carbide Alloys Alloys Griffing of the Cuting Elements of High-Carbon-Alloy Blanking Chinding of the Cuting Elements of High-Carbon-Alloy Blanking Punch-le Sets Gulaaran, K. K. The Electric-Spark Method Applied to Threaddl Englednov, Yo. V. Manufacture of Precision Tools by the Ricking-Spark Method	Gulayyan, K. K., and Y. L. Kraychenko. Manufacture of Complex-Shaped Machine Parts by Using a Program-Controlled Rloctric-Spark Machines Unit Aleksandrov, Y. P., and B. N. Zolotykh. Selecting the Optimus Procedures for Electric-Spark Machining of Mickel-Base Heat-Resistant Alloys Gorbungv, B. M. Electric-Spark Lapping Used on Flour-Mill Rolls	Parts by shtok, W. r. Mass-Pri	Gard 4/5

KOMAN, Vaclav, inz. (Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka); KOVAC, Stefan, dr., inz., C.S. (Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka); KOMANOVA, Eva, inz.

Infrared absorption spectra of esters of the trans $-\Delta^9$ -octadecenoid acid (elaidic acid). Chem zvesti 15 no.6:441-449 Je '61.

1. Katedra technickej mikrobiologie a biochemie, Slovenska vysoka skola technicka, Bratislava (for Koman). 2. Katedra organickej chemie, Slovenska vysoka skola technicka, Bratislava (for Kovac). 3. Vyvojove pracovisko, n.p., Palma, Bratislava, ul. Februaroveho vitazstva (for Komanova).

KOVAC, Stefan, dr., inz., C.Sc. (Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka); KOMAN, Vaclav, inz. (Bratislava, Kollarovo namesti 2, Chemicky pavilon, Slovenska vysoka skola technicka); KOMANOVA, Eva, inz.

Examination of the effect of symmetry of esters of the trans- Δ^2 -octadecenoic acid (elaidic acid) on the altitude of infrared absorption band in 970 cm⁻¹. Chem zvesti 15 no.6:450-455 Je '61.

1. Katedra organickej chemie, Slovenska vysoka skola technicka, Bratislava (for Kovac). 2. Katedra technickej mikrobiologie a biochemie, Slovenska vysoka skola technicka, Bratislava (for Koman). 3. Vyvojove pracovisko, n.p., Palma, Bratislava, ul. Februaroveho vitazstva (for Komanova).

FEDOROVA, N. Ta.: MORYGANOV, P. V.; KOMANDAKOVA, L. A.

Mechanism of the action of the stabilizers of hydrogen peroxide alkali solutions and its practical application. Isv. vys. ucheb. sav.; tekh. tekst. prom. no.4:76-83 162. (MIRA 15:10)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.

(Bleaching) (Hydrogen peroxide)

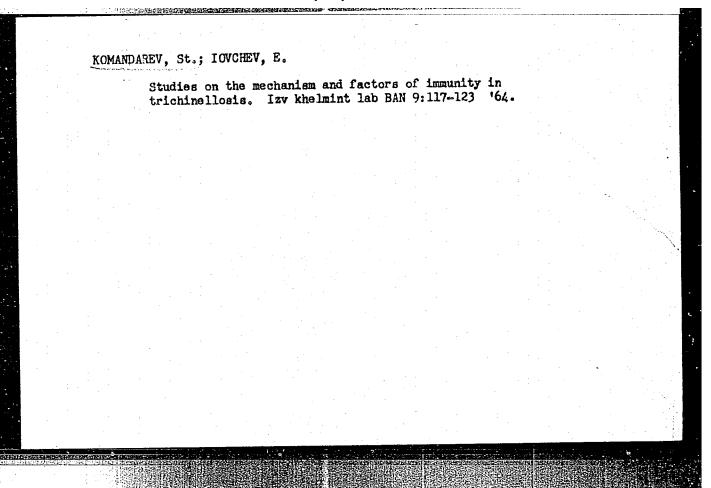
MATOV, Konstantin; KOMANDAREV, Stamat

The intensity of invasion of Trichinella in various swine muscles. Wiad. parazyt. 8 no.6:613-628 '62.

1. Kafedra parazitologii Vet. Insti, Sofiya, Bolgariya. (TRICHINOSIS) (SWINE DISEASES)

MATOV, K.; KOMANDAREV, St.

Further studies on the problems of muscular Trichinella larvae occurring in the organs having no striated muscles. Izv khelmint lab BAN 9:81-90 '64.



TOMOV, V1.; KOMANDAREV, St.

Possibility of preventing recurrences of echinococcosis in man by applying the proteolytic enzyme Papain. Izv khelmint lab BAN 9:129-134 '64.

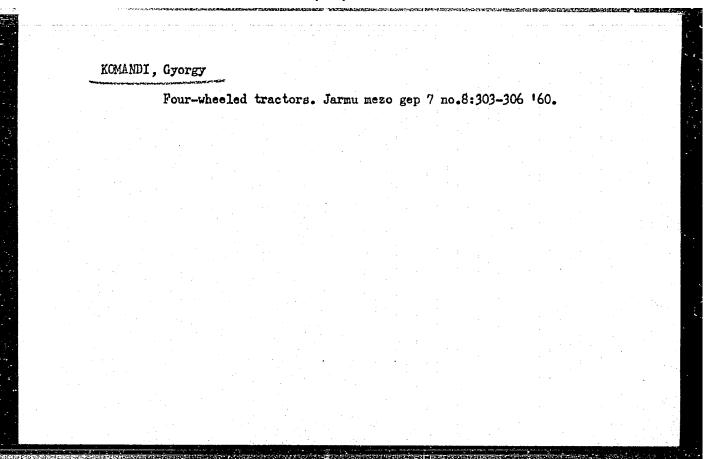
KOMANDENKO, N.I.

Effect of oxygen under pressure on the course of experimental tick-borne encephalitis in white mice. Vop.virus. 7 no.6:658-661 N-D '62. (MIRA 16:4)

1. Voyenno-meditsinskaya ordena Lenina akademiya imeni S.M. Kirova, Leningrad.

(ENCEPHALITIS) (OXYGEN THERAPY)

Treatment of the progressive form of Russian tick-borne encephalitis with oxygen under pressure. Vop. paikh. i nevr. no.9:250-256 '62. (MIRA 17:1) 1. Kafedra nervnykh bolezney Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.



DEMICHEV, A.D.; KISELEV, V.F., starshiy dorozhnyy master (stantsiya Ira-Iol'
Pechorskoy dorogi); MOZIOVSKIT, A.D.; MOMANDIN, A.A.; starshiy dorozhnyy master
(Stantsiya Polotsk Belorusskoy dorogi); KURS, V.G., brigadir puti(stantsiya Cheremkhovo Vostochno-Sibirskoy dorogi); PAVIOV, V.N., brigadir
puti (stantsiya Cheremkhovo Vostochno-Sibirskoy dorogi); SHAKHBALAYEV,
A.M., dorozhnyy master (stantsiya Zenzeli Ordzhonikidzevskoy dorogi);
TARASENKO, V.Ye., dorozhnyy master (stantsiya Irkutsk II)

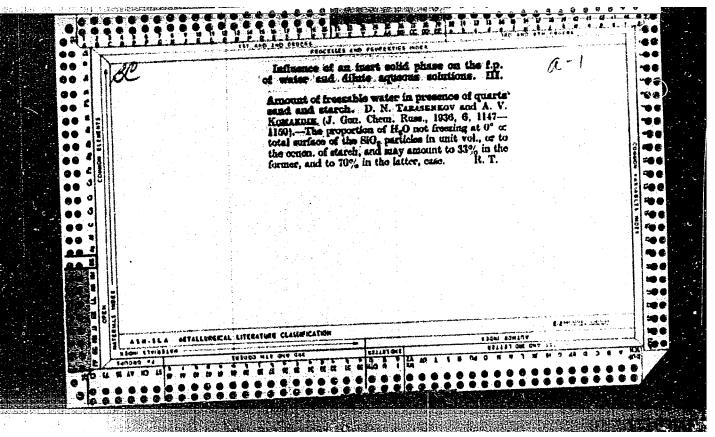
Letters to the editor. Put' i put.khoz. no.11:43-45 N 158.
(MIRA 11:12)

1. Nachal'nik normativnoy stantsii tresta "Rekput'." (for Denichev).
2. Zamestitel' nachal'nika distantsii, stantsiya Kizel Sverdlovskoy dorogi (for Kozlovskiy).

(Railroad engineering)

KOMANDIN, Arnol'd Grigor'yevich; SAMOYLOVICH, T.A., red.

[Operation of a MAK-FV-4 freon refrigeration plant] Ekspluatatsiia freon. oi kholodil'noi ustanovki marki MAK-FV-4. Moskva, Izd-vo "Transport," 1964. 51 p. (MIRA 17:6)

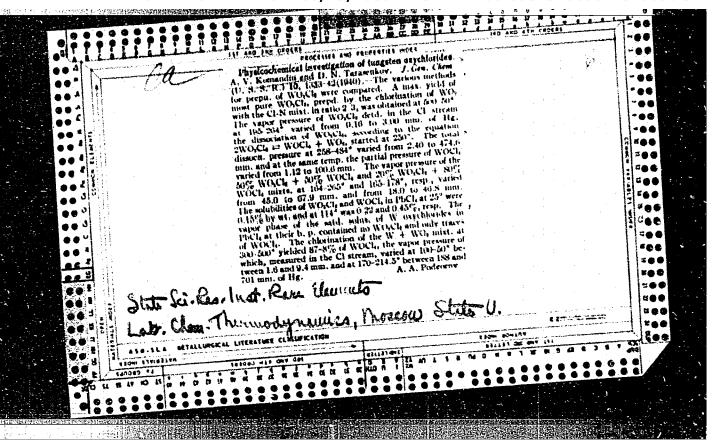


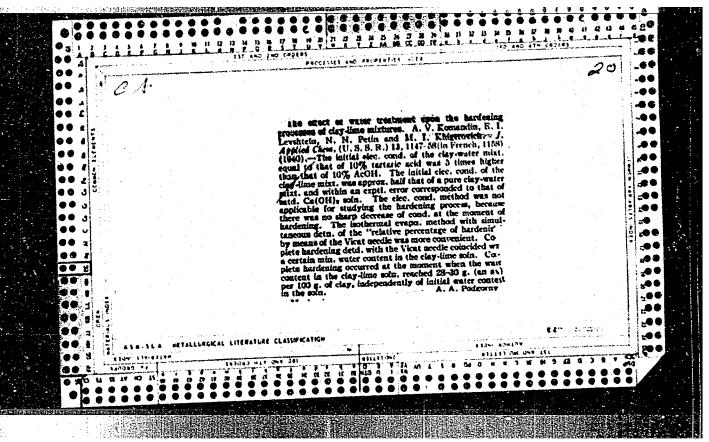
TARASENKOV, D. N.; KCMANDIN, A. V.

"Vapor Tension of Pentachlorides of Tantalum and Niobium and the Mixtures with Tetrachloride of Titanium," Zhur. Obshch. Khim., 10, No. 14, 1940. Lab. of Chem. Thermodynamics.

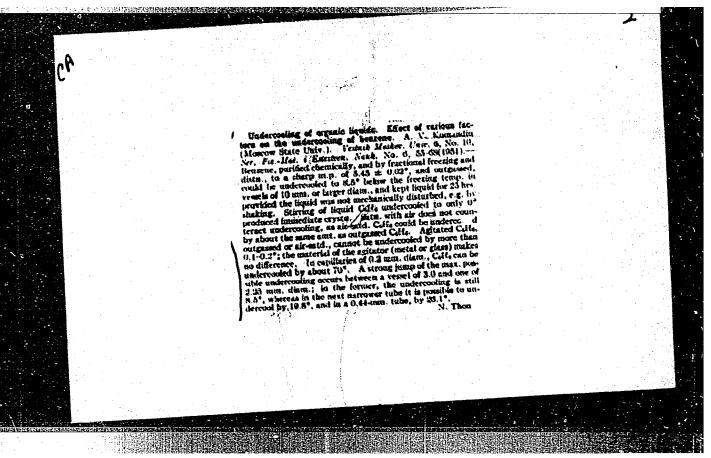
Moscow State Univ. and State Sci. Res. Inst. of Rare Flements. Received 25 March 1940.

Report U-1610, 3 Jan. 1952.





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KOMANDIN, A. V.

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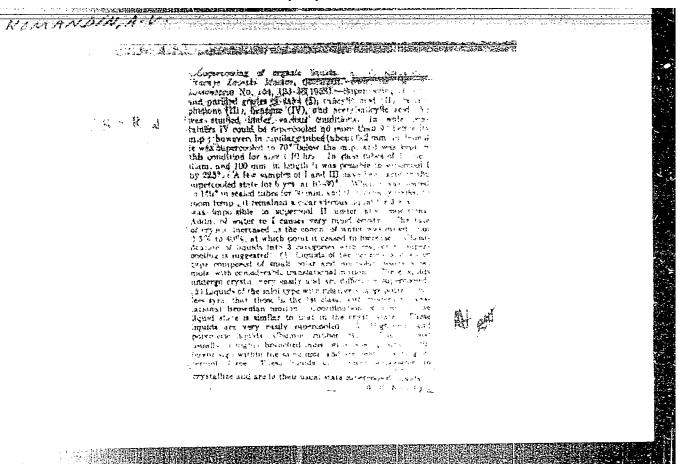
USSR/Chemistry Vanadium Compounds

"Vapor Pressure of Vanadium Oxytrichloride," A. V. Komandin and M. L. Vlodavets, Moscow State U

Zhur Fiz Khim, Vol 26, No 9, pp 1291-1297

Made a comparative study and evaluation of two methods of obtaining VOCl₃. The method of chlorinating V_2O_3 with Ol gas in the presence of C proved to be more effective than the action of dry HCl gas on V_2O_5 . By the first method, the chlorination of 30 grams of V_2O_3 proceeded quantitatively and to completion in 2 hrs. The vapor pressure of VOCl₃ was measured within the temp range of $18.7-100^\circ$. The heat of evapn and the Trouton Kistyakovskiy const were computed from the vapor pressure temp relationship. From the heating curves, the MP of VOCl₃ was found to be $-78.9 \pm 0.2^\circ$.

263 T 19



Wee of a chlorine-Ag electrode instead of a calomel electrode. Uch.zap.Mosk.un. no.164;201-207 '57. (MIRA 8:7) (Electrodes, Silver)

KUMANDIN. A. V.

USSR/Chemistry Physical chemistry

card : 1/1

Authors : Komandin, A. V., and Bonetskaya, A. K.

Title : Dipole moments of certain salicylic acid derivatives

Periodical : Zhur, fiz, khim, 28, Ri, 6, 1113 - 1119, June 1954

Abstract : The dipole moments of methyl salicylate, ethyl salicylate, isoamyl

salicylate, phenyl salicylate and 2-naphthyl salicylate, were measured in homeomeasthations and the dipole moments of orthogoethylpenyoic acid to income foutlin at the decidence of the intraments in many salicylic acid derivatives are the effect of the intramelacinar mytrogen bond on the orange of the interaction of the device used in measuring the measuring commeasuring of

the solutions, is included. Twenty references: 4 "SSR, 15 German and

English. Tables.

Institution : The M. V. Lomonosov State University, Moscow

Submitted: November 13, 1953

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To provide the model to

Carro - 12/25

Authors : Komandin, A. V., and Bonetskaya, A. K.

Title i Dipole moments of orthohydroxybenzoic acid substitutes

Periodical : Zhur. fiz. khim, 28/10, 1789-1794, Oct 1954

Abstract In order to explain the effect of the hydrogen bond on the dipole moment, the authors measured the dipole moments of the following substitutes of orthododraxybenzoic acid; orthomethoxy and orthodoroxybenzoic acid, methyl ether of orthomethoxybenzoic acid and saliparity in the letter represents a molecular compound of saliegies to identify the measured dielectric permeability idensities and index of refraction for various concentrations of the dissolved substances are presented.

The chemical structure of the substitutes is described. Twelve references:

1-USSR: 6-German; 2-USA and 1-French (1893-1954). Tables,

Computation of The M. V. Lomonosov State University, Mascow

Submitted: February 17, 1954

USSR/Chemistry - Physical chemistry

Card 1/2 : Pub. 147 - 18/27

Authors : Komandim, A. V., and Rosolovskiy, V. Ya.

Title : Dipole moments of certain orthohydroxybenzoic acid and glycerin

derivatives

Periodical : Zhur. fiz. khim. 28/12, 2215-2221, Dec 1954

Abstract : In order to explain the effect of the hydrogen bond on the dipole

moment, the following compounds were measured at 25°C in benzene solutions: methyl and phenyl ethers of o-acetoxybenzoic acid (methyl and phenyl o-acetoxybenzoic), phenyl ether of o-phenoxybenzoic acid

(pheryl o-phenoxybenzoate) and glycerin ether of acetic acid (glycerin acetate) as well as glycerin ether of salicylic acid

(glycerin salicylate) in dioxane. The dipole moment of the latter was measured in dioxane because of its low solubility in benzene. The

synthesis and purification of the investigated substances are

described and the results obtained are tabulated. Fourteen references; 2 USSR; 6 German; 1 British; 1 French; 3 USA and 1 Sidss (1897-1954).

Tables.

Drum, fiz. khim. 28/12, 2215-2221, Dec 1954

(Additional Card)

Card 2/2

Institution : The M. V. Lomonosov State University, Moscow

Submitted : May 8, 1954

5(4) AUTHORS:

Komandin, A. V., Bonetskaya, A. K.

SOV/76-33-3-10/41

TITLE:

Density and Molar Volume of Several Organic Compounds in a Broad Range of Temperature (Plotnosti i molyarnyye ob"yemy nekotorykh organicheskikh soyedineniy v shirokom intervale temperatur)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 3, pp 566 - 571 (USSR)

ABSTRACT:

Density and molar volume in the temperature range 100-2000 were determined for the liquid and supercooled liquid state of the following 11 substances: methyl-, ethyl-, isoamyl-, phenyl-, (salol) and 2-naphthyl- (betol)-esters of o-hydroxy benzoic acid, o-acetoxy benzoic acid (aspirin), the methyl esters of o-methoxy benzoic acid, salipyrine, o-methoxyphenol (guaiacol), 3-methyl-6-isopropylphenol (Thymol) and benzo-phenone. Density in solid state was determined at room temperature for: the phenyl- and 2-naphthyl esters of o-hydroxy benzoic acid, o-aceto benzoic acid, 3-methyl-6-isopropyl-phenol and benzophenone; these data are, however, to be re-

Card 1/2

Density and Molar Volume of Several Organic Compounds in a Broad Range of Temperature

SOV/76-33-3-10/41

garded as orientation data only. The production of guaiacol, thymol and benzophenone is given, the way of production of the other substances has already been described (Ref 4). The density was measured by means of a pycnometer-dilatometer of the Biron-type (Ref 5). Table 2 shows that the temperature function of density develops linearly for all substances investigated. There are 3 tables and 5 references, 2 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

June 25, 1957

Card 2/2

5 (4)

AUTHORS:

Komandin, A. V., Bonetskaya, A. K. (MOSCOW)

SOV/76-33-5-3/33

TITLE:

The Dielectric Constant of Esters of Orthohydroxy Benzoic Acid in a Wide Temperature Interval (Dielektricheskaya pronitsayemost; slozhnykh efirov ortogidroksibenzoynov kisloty v shirokom intervale temperatur)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5, pp 976 - 982

ABSTRACT:

This paper describes measurements of the dielectric constants of methyl, ethyl, isoamyl, phenyl, and 2-naphthyl ester of the acid mentioned in the title. The measurements were carried out in a liquid and undercooled liquid state within a temperature interval ranging of from a temperature below melting point to a temperature at which the dielectric constant decreased rapidly to low values with a constant frequency of the outer electric field; these values did not vary with further temperature decrease and approached the square of the refractive index, i.e. the total amount of electronic and atomic polarization. Figure 1 shows the construction of the condenser used for the measurements. By using a special glass filter crystal-

Card 1/3

The Dielectric Constant of Esters of Orthohydroxy Benzoic Acid in a Wide Temperature Interval

SOV/76-33-5-3/33

lization germs were prevented from being carried along with the liquid and the measurement in undercooled state up to glass-shaped modification without spontaneous crystallization was rendered possible. Tables 1 - 5 show the values of the dielectric constant for the esters mentioned; moreover, the values computed for the Kirkwood coefficient g, as well as for the general and orientation polarization. Figure 2 shows the shape of the curve of the dielectric constant depending on temperature. Hence it appears that with decreasing temperature and constant frequency of the outer electric field (1.72.10⁶ cycles) the value of the dielectric constant increases, reaches a meximum, and then decreases rapidly to low values. There is a relation between the molecular structure of the substances investigated and the variation of the dielectric constants. The more complicated the structure of the substituent, the lower and flatter the curve of the dielectric constant. The maxima of the dielectric constants are influenced in a similar way. These turning points could be reproduced with an accuracy

Card 2/3

The Dielectric Constant of Esters of Orthohydroxy Benzoic Acid in a Wide Temperature Interval

SOV/76-33-5-3/33

of 1 - 2° and represent a specific quantity as to the liquid concerned. There are 2 figures, 5 tables, and 12 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. H. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

November 25, 1957

Card 3/3

CIA-RDP86-00513R000824020006-9 "APPROVED FOR RELEASE: 06/13/2000

5(4) AUTHORS:

SOV/76-33-6-18/44

Komandin, A. V., Rosolovskiy, V. Ya.

TITLE:

Densities and Molar Volumes of Some Organic Compounds in Broad Temperature Ranges (Plotnosti i molyarnyye ob"yemy nekotorykh organicheskikh soyadinaniy v shirokom intervale

temperatur)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, pp 1280-1282

(USSR)

ABSTRACT:

The densities were detc ained in the temperature range of 60 - 160 for the liquid and undercooled state of the following 6 compounds: ethylene glycol, glycerin, α , γ -glyceryl acetate, a-glycerin-o-hydrobenzoate, and the methyl- and phenyl-o-acetoxy benzoate (Table 1). The determination accuracy is specified as being + 0.03%. Results show that in all compounds in the investigated temperature range the temperature function of density proceeds linearly. Also the molar volumes exhibit a linear temperature function. Table 2 supplies equations of the straight lines of the temperature function of density and molar volumes of the compounds investigated for broad temperature ranges. There are 2 tables

Card 1/2

SOV/76.33-6-18/44 Densities and Molar Volumes of Some Organic Compounds in Broad Temperature Ranges

and 3 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: November 10, 1957

Card 2/2

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5(4) 50V/76--33-6-19/44

AUTHORS: Komandin, A. V., Rosolovskiy, V. Ya.

TITLE: Dielectric Constant of Some Organic Compounds Over a Broad

Range of Temperature (Dielektricheskaya pronitsayemost' nekotorykh organicheskikh soyedineniy v shirokom intervale

temperatur)

PERIODICAL: Zhurnal fizioheskoy khimii, 1959, Vol 33, Nr 6, pp 1283-1288

(USSR)

ABSTRACT: To clarify the relationship existing between dielectric

properties and structure the dielectric constants (DC) were determined for the liquid and undercooled state over a

broad temperature range concerning the following substances: methyl- and phenyl-o-acetoxybenzoate, anglyceryl-c-hydroxybenzoate and a, ynglyceryl acetate. The preparation and clean-

ing methods as well as the physical constants of these compounds have already been described earlier (Ref 2). The determination of the (DC) took place according to the pulsat-

ing method (Ref 3). Measuring results of the (DC) and densities of the above mentioned substances are given

as well as the computed values of the general. and orientation

Card 1/2 polarization for the liquid and undercooled phase, and the

SOV/76-33-6-19/44 Dielectric Constant of Some Organic Compounds Over a Broad Range of Temperature

coefficients g according to Kirkwood (Tables 1 - 4). It may be observed from the results obtained and from a graph (Figure) that the (DC) rises with the temperature drop, attains a maximum and then drops rapidly. The position of the curve maxima, however, depends on the structure of the compound. With rising molecular weight of easer the 6 - T cure (6 - (DC), T = temperature) runs lower, and the curve maximum shifts to higher temperatures. The temperatures T_x (char-

acteristic of each of the compounds) which corresponded to the E - T curve inflection, were determined at constant frequencies of an electric cuter field, and are specified in the present paper. There are ! figure, 4 tables, and 4 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: November 10, 1957

Card 2/2

S/076/60/034/04/24/042 B010/B009

AUTHORS:

Komandin, A. V., Bonetskaya, A. K. (Moscow)

TITLE:

The Dielectric Constants of Some Organic Compounds Within a Broad

Temperature Range

PERIODICAL:

Zhurnal fizioheskoy khimii, 1960, Vol. 34, No. 4, pp. 845 - 849

TEXT: In continuation of previous papers (Refs. 1,2) concerning the relation between the dielectric properties and chemical structures of organic substances in liquid and supercooled liquid phases the dielectric constants of the methyl esters of c-methoxybensoic acid, c-acetoxybensoic acid, salipyrine, and benzophenone were measured. The measurements were made by means of an apparatus previously described (Ref. 5) at a frequency of 1.72·10 cps and temperatures of from 200 to 400 k. The measured values of the dielectric constants and densities of the substances under investigation as well as the calculated values of the total and oriented polarizations for both the liquid and supercooled phases and of the Kirkwood coefficients 6 of the intermolecular interaction are given in Tables 1-4. As in the earlier investigations, the curve of the dependence of the

Card 1/2

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21.7800 also 2209

S/076/60/034/009/018/022 B015/B056

AUTHORS:

Komandin, A. V., Shapovalova, R. D., and Mikhaylova, N. P.

TITLE

Some Physical Properties of Tungstates III. The Dielectric

Constant and the Polarization of Solid Tungstates

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,

pp. 2063-2065

TEXT: The dielectric constants of manganese, calcium, barium, zinc, copper, vmagnesium, iron, vcobalt, and mickel tungstates were measured by the immersion method (Refs. 1,2) in the solid state at 25°C (Table, measured values). As standard liquids, benzene - acetone and acetone water mixtures were used for the solid tungstates. Measurements were carried out on a previously described device (Ref. 3) at a frequency of

1.72.10 c/sec. From the values obtained for the dielectric constants, the total polarizations of the solid crystalline tungstates were calculated from the Debye equation. The dielectric constant is in the range from 17.7 to 21.4. The molar refraction for calcium- and manganese tungstate

Card 1/2

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Some Physical Properties of Tungstates. II. \$\frac{5}{076}\begin{align*}60/034/009/018/022 \]
The Dielectric Constant and the Polarization of \$B015/B056 \]
Solid Tungstates

in the solid state was also determined. According to the results obtained it is found that, apparently, the structure of the crystals of all tungstates investigated is of the type of ionic crystals, and that the difference between the total polarization and the molar refraction represents the polarization of ionic displacement. There are 1 table and 6 references: 5 Soviet and 1 US.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: December 31, 1958

Card 2/2

KOMANDIN, A.V.; SHINIT, B.D.

Thermodynamics of dielectric relaxation processes of polyatomic elechols in the liquid state. Zhur.fiz.khim.
37 no.2:347-353 F 163. (MIRA 16.5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Alcohols) (Dielectric constants)

"APPROVED FOR RELEASE: 06/13/2000

KOMANDIN, A.V.; SIZOV, L.I.; SHIMIT, B.D. (Moscow)

Dielectric constant and dielectric losses of o-hydroxybenzoic acid derivatives in the liquid state. Zhur. fiz. khim. 37 no.4:764-769 Ap 163. (MIRA 17:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

CIA-RDP86-00513R000824020006-9" **APPROVED FOR RELEASE: 06/13/2000**

関係(2) / (1) / (1) / (2 is a comparable of the SOUTH THE WEST AUTHOR: Komandin, A. V.; Sizov, L. I.; Shimit, B. D. TIME: Thermodynamics of dielectric relaxation processes in liquids. ograce AN SSSR. Zhurmal fizicheekoy khimii v. 37 no. 5 1963, 1083-1088 impli 1435: relaxation processes prenyl O-hydroxybenotare prenyl - : etuxybenzwate Collect A previous study (A. V. Komandin, I. J. Sizev and R. D. Shimir Zh. or ration of phenyl onlydrocybenicate and procy. Dearst oxytenizate at Fright al sie to . .. Die gresent wark is camberter e. rations of these compounds at several temperatures. From the results a septim both investigations, the main themselveshor functions install the call The transfer of proceedings in the control of the transfer of the control of the Card 1/2

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ASSOCIATION: Mosko	ovskiy gosudarstvenny*y uni	versitet (Moscov State Universi	ty)
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KOMANDIN, A.V.; SHIMIT, B.D.

Thermodynamics of dielectric relaxation processes of o-hydroxybensoic acid derivatives. Shur.fiz.khim. 37 no.10:2289-2293 0 '63.

(MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet.

ACCESSION NR: AP4011441

5/0076/64/038/001/0089/0095

AUTHORS: Komandin, A. V. (Moscow); Smirnova, A. D. (Moscow)

TITLE: The thermodynamic aspect of dielectric relaxation processes

in glycerin esters.

SOURCE: Zhurnal fiz. khim, v. 38, no. 1, 1964, 89-95

TOPIC TAGS: dielectric constant, dielectric losses, glyceryl acetate, hydroxybenzoate, enthalpy, entropy, dielectric relaxation, acetic acid, glycerin derivatives, thermodynamic functions

ABSTRACT: This article deals with the measurements of the dielectric constants and tangent of dielectric losses of X, Y-glyceryl acetate and A-glycerin ester of o-hydrobenzoate in a liquid and supercooled liquid state at different frequencies of the electric field and in a wide range of temperatures. The free energy, enthalpy and entropy characterizing the dielectric relaxation processes were calculated from the resulting measurements. The relaxation time of the glycerin derivates is closely associated with the nature of the substituting groups. The substitution of the hydrogen in the glycerin by simpler

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ACCESSION NR: AP4011441

radicals reduces the relaxation time, whereas the substitution by more complex radicals prolongs the dielectric relaxation time to a considerable extent. The dispersion of the dielectric constant of d, 4 -glyceryl acetate has been determined for five temperatures ranging from -20 to -50C, and the dispersion of a-glyceryl o-hydroxybenzoate has been determined at 40, 30 and 20C. The tempera-ture dependence of the dielectric constant and the loss tangent have been determined by &-glyceryl c-hydroxybenzoate over a given temperature range. The connection between the thermodynamic functions and the chemical structure of the investigated compounds is under discussion. Orig. art. has: 3 Figures, 6 Formulas and 6 Tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni V. M. Lomonosov (The V. M. Lomonosov Moscow state university)

SUBMITTED: 24Jan63

DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CH

NR REF SOV: 006

OTHER: 003

ACCESSION NR: AF4033413

8/0076/64/038/003/0783/0785

AUTHOR: Komendin, A. V.; Smirnova, A. D.

TITIE: Dielectric properties of liquid benzophenone

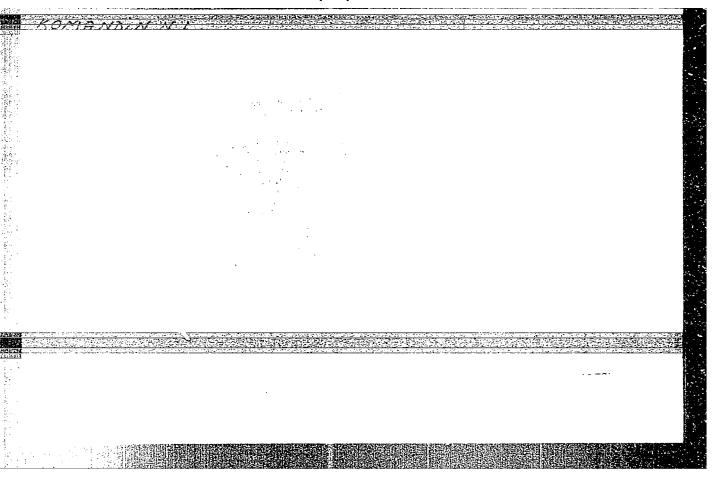
SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 783-785

TOPIC TAGS: benzophenone, dielectric loss, dielectric permeability, relaxation process, thermodynamic function

ABSTRACT: The article describes the measurements of dielectric permeability and the tangent of the angle of dielectric losses for liquid benzophenone in the 95 to -55 C interval at 50 kc, 800 kc and 20 Mc as the frequency of the external field. The measurement of dielectric properties was conducted by the resonance method. The accuracy of dielectric permeability measurement was ± 1 %, dielectric losses ±(5 - 10) %, and the accuracy of temperature measurements was ± 0.1 deg. It was found that with lowering of the temperature the dielectric permeability of liquid benzophenone increases, reaching a maximum, after which it rapidly falls to small values, which characterizes the deformation polarization. At the temperature of the maximum of dielectric permeability the tangent of the dielectric

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Komandin, Nit.

137-1957-12-23429

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 86 (USSR)

AUTHOR: Komandin, N. L.

TITLE: The Continuous Casting of Steel (Nepreryvnaya razlivka stali)

PERIODICAL: V sb.: Novoye v liteyn. proiz-ve. Nr 2. Gor'kiy, Knigoizdat,

1957, pp 150-171

ABSTRACT: An analysis of the operation of an industrial system, installed at the "Krasnoye Sormovo" plant in 1955, by means of which two

ingots of 175-420 mm cross section can be cast simultaneously from a 45-50 t ladle through an intermediate casting device (ICD). These unified ingots replace 12 types of regular ingots of different dimensions and weights and are suitable for rolling into sheets and structural shapes. To ensure the completeness of the process of casting steel from a ladle of such capacity, the temperature of the metal must be 1540° or greater (as read on an optical pyrometer) at the time of its discharge from the furnace. If the temperature is lower, difficulties in the casting process are

encountered because the metal solidifies in the casting process are the ICD. An ICD of 3-5t capacity, equipped with a cover and

Card 1/3 heated to a temperature of 900°, ensures the pouring of the

137-1957-12-23429

The Continuous Casting of Steel

entire contents of the ladle at an almost constant temperature (the temperature drop in the ICD is only 8-10° in 45-60 min). In order to achieve a steady stream of metal from the ICD various casting nozzles were tested, including the electrically heated graphite-chamotte type. Compared with the regular ingot produced at the "Krasnoye Sormovo", the continuous ingot shows a finer grain structure, decreased liquation and porousness, and a reduced amount of non-metallic inclusions. However, some internal cracks were observed in it; the occurrence of the cracks depends on the intensity of the secondary cooling. A diagram is shown for the stresses which arise in the cross section of a con-Amuous ingot. When the amount of water applied to the surface of the ingot in jets during the secondary cooling is decreased from 5 to 3.5 liter per kg of steel, the size of the cracks is considerably reduced. Internal cracks may be eliminated entirely if the surface of the ingot is sprayed by water from spray nozzles. The internal cracks are completely welded during the rolling of the ingots into sheets, and the surface of the sheets is superior to that of the sheets obtained from regular ingots. The mechanical properties of the metal are better than the specification properties required for a given grade of steel. The plant employs

Card 2/3

137~1957-12-23429

The Continuous Casting of Steel

the metal obtained from rolling of continuous ingots for shipbuilding. The installation at the "Krasnoye Sormovo" casts 20-25 percent of the total steel smelted in the Martin shop, and it is planned to increase this amount to 60-65 percent in the near future.

1. Steel castings-Test methods 2. Steel castings-Test results

Card 3/3

CIA-RDP86-00513R000824020006-9" APPROVED FOR RELEASE: 06/13/2000

137-58-4-8335

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 289 (USSR)

AUTHORS: Komandin, N.L., Smolyakov, B.N.

TITLE: Shipbuilding Applications of High Strength Steels (Primeneniye

staley povyshennoy prochnosti v sudostroyenii)

PERIODICAL: Tr. Gor'kovsk. in-ta inzh. vodn. transp., 1957, Nr 14,

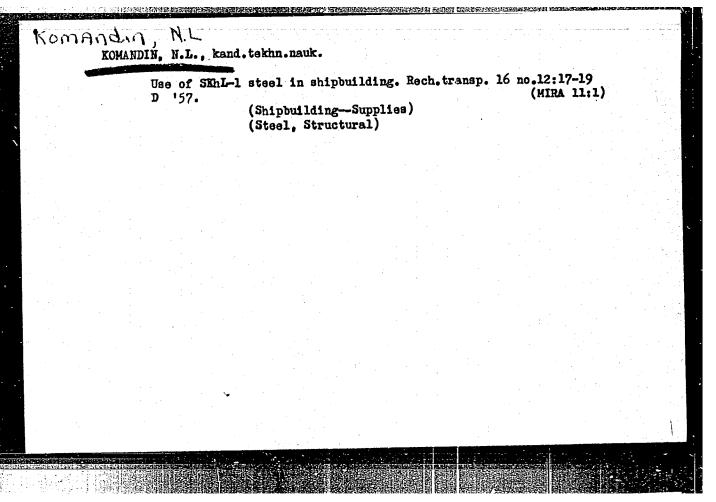
pp 62-75

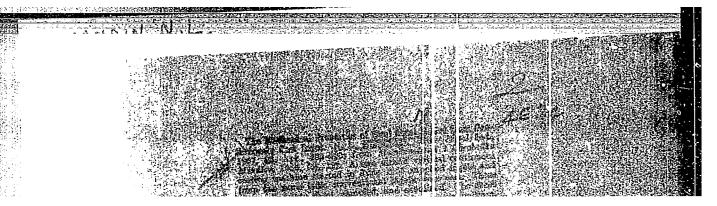
ABSTRACT: The properties of MK steel of the % composition C 0.09-0.12.

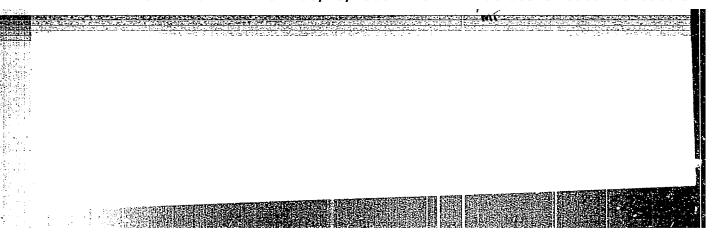
Si 0.7-1.2, Mn 1.0-1.6, and Cu 0.2-0.5 were investigated relative to its use in shipbuilding in the place of SKhL-1 and St. 3 steels. Testing of >2000 specimens cut from plates of different thicknesses along and across the direction of rolling have shown MK steel to have superior plastic properties than St. 3 steel, lower notch and aging sensitivity, better corrosion strength in sea and river water and in a mixture of 20% benzene and 80% sea water, and superior weldability. The building of a seagoing ship of MK steel saved 26.5% in weight; a 17.6% weight saving was attained in the building of a river vessel.

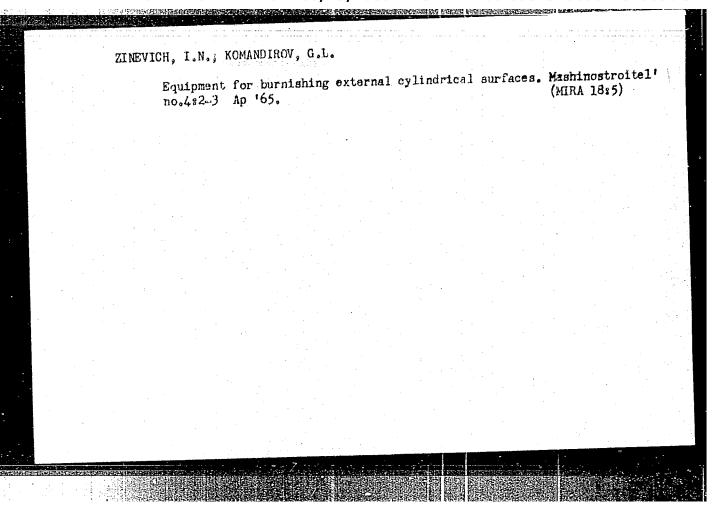
1. Ship hulls--Materials--Effectiveness 2 Steel--Mechanical

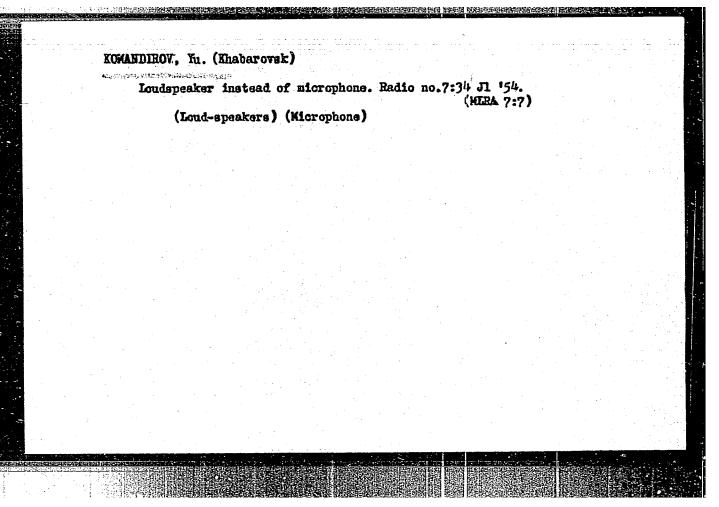
Card 1/1 properties 3. Steel--Applications











CIA-RDP86-00513R000824020006-9 "APPROVED FOR RELEASE: 06/13/2000

Komandirov, To.

107-12-19/46

Komandirov, Yu., Kemerovo AUTHOR:

Long-Distance Communications on the Ultrashort Waves

TITLE: (Dal'niye svyazi na UKV)

PERIODICAL: Radio, 1956, Nr12, p. 20 (USSR) ABSTRACT: A report of unusually good transmission of ultrashort waves on September

28 and 30, 1956, in the central part of Russia is presented.

Sept 28, 1956, the collective radio station of the DOSAAF Kemerovo oblast Radio Club 059510 established (at 11.52 Moscow time) a duplex communication with the station 068003 in Rostov-na-Donu, on 38 mc, at a distance of 3.200 km. The 068003 worked telegraphically with RST 338, and 056510 worked telepho-

Sept 30, 1956, a duplex radio communication was established with Novochernically with RSM 595.

kassk, 068030, 3120 km (at 08.43 a.m.).

At 09.00 a.m. the communication was established with Moscow 077528 2960 km. Moscow operator Ye. Skorospelov reported his RSM 445, and mine

At 09.40 a.m. the same day, a contact was established with the Taganrog station 068040, distance 3820 km, with RSM 575 and Taganrog RSM 445.

Card 1/2 Between 10.00 and 11.00 a.m. the same day, radio hams of Kemerovo heard,

CIA-RDP86-00513R000824020006-9" **APPROVED FOR RELEASE: 06/13/2000**

Long-Distance Communications on the Ultrashort Waves
with RSM 335-575, the following stations: Ivanovo 057011, Saratov 069004
and 069007, Voroshilov 031482, Leningrad 076524, Silishchi 007001,
Khimki 064020, and many other cities.
The DOSAAF Club Kemerovo station has a 9-tube superhet receiver.

AVAILABLE: Library of Congress

Card 2/2

8/138/60/000/01/01/010

AUTHORS:

Shatalov, V.A., Popova, Ye.N., Krygina, K.G., Komandorova, L.A.

TITLE:

Greater Stability of the SKS-30 Polimerization System

PERIODICAL:

Kauchuk i Rezina, 1960 MNo. 1, pp. 3 - 5

TEXT: The article deals with possibilities of improving the stability of the polimerization system and investigates the reasons for its instability. One of the main reasons for the separation of coagulum during the process of polimerization is due to ferrous salt getting into the polimerization charge. It is sufficient to add 0.1% FeSO4 to the aequeous phase to bring the amount of coagulum sufficient to add 0.1% FeSO4 to the aequeous phase to bring the amount of coagulum sufficient to add on the rubber. The principal mass of iron compounds enters the polimerization mixture with the emulsifier (Nekal) and alkali. Deposition of coagulum is also brought about by a great temperature gradient between the latex and the walls of the apparatus. The large particles of phenyl- anaphtylamine are the coagulation centers. The stability of the low-temperature SKS-30A polimerization system can be improved by increasing the quantity of water and emulsifier, as well as by adding a small amount of leucanol, which should be introduced at a rate of 0.3% based on the monomers. The effect produced by leuconol on the SKS-30 system

Card 1/2

Greater Stability of the SKS-30 Polimerization System

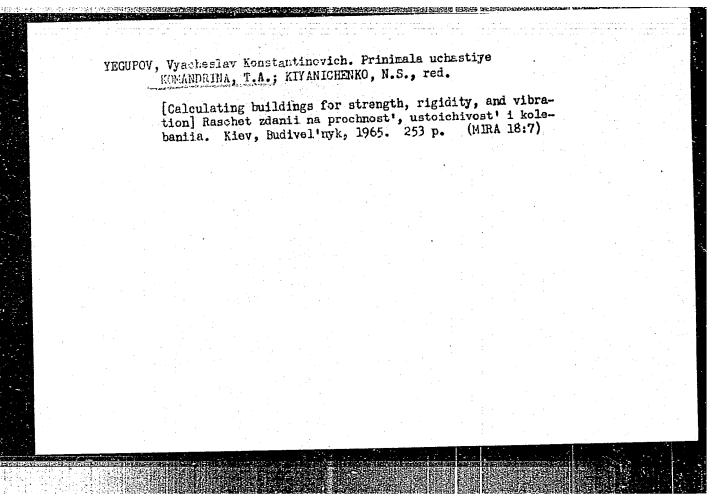
S/138/60/000/01/01/010

has been tested under laboratory and industrial conditions. The results of tests are shown in 2 Tables. These data show that under industrial conditions leucanol improved considerably the stability of the polimerization system. After introduction of leucanol the use of the deposition in the end polimerizers decreased about 10 times, while in the first apparatus congulation was practically not existing. Laboratory tests permitted to draw the conclusion, that the stabilization brought about by leucanol is due to the effect it produces on the ion of iron and to the physico-chemical processes of colloidal substances like soap or dispersers, whereby the protective action of the film surrounding the rubber particles is strengthened. It can therefore be concluded that by the introduction of leucanol into the recipe of SKS-30, by the total prevention of iron compounds from getting into the system and by the improvement of the dispersion of phenyl- \(\beta\)-naphtylamine it is possible to eliminate the precipitation of coagulum from latex in the course of polimerization as well as the separation of moments. There are 3 tables and 3 Soviet references.

ASSOCIATION: Voronezhskiy zavod sinteticheskogo kauchuka im. S. M. Kirova (Voronezh Plant of Synthetic Rubber im, S. M. Kirov)

Card 2/2

KOMANL		New method for calculating seismic effects on spatial Dop. AN URSR no.7:888-892 '64.						constru (MIRA	constructions. (MIRA 17:9)			
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KOMANDRINA, T.A.

Calculating buildings for seismic action taking three-dimensional effect into account. Izv. AN Arm. SSR. Ser. tekh. nauk 17 no.4:17-25 '64. (MIRA 17:11)

1. Odesskiy inzhenerno-stroitel'nyy institut.

HOMANDERSKAYA, L. V.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical analysis. Phase transitions

B-8

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11143

Author : 1. Shukarev S.A., Tolmacheva T.A., Oranskaya M.A., Komanderskaya L.V.

Shchukarec S.A., Oranskaya M.A., Shemyakina T.C. Title Thermal Dissociation of Platinum Hakides. Communication 1. Platinum

Bromides. Communication 2. Platinum Chlorides.

Orig Pub : Zh. neorgan. khimii, 1956, 1, No 1, 8-16; 17-23

Abstract : 1. Statistical method of F. Ephraim (Ber., 1917, 50) 1069) swas cused to investigate temperature dependence of thermal dissociation of PtBr4 (I), PtBr3 (II), PtBr2 (III) and PtBr (IV). Scheme of the unit is described. Data obtained are represented as lg P - 1/T graphs. From the slope of the straight lines were determined equations of dependence of dissociation presaure on temperature, for I lg P - 7.809 - (4549/TO, II lg P- 7.195 - (4808/T), III lg P = 6.064 - (5123/T) and IV lg P = 4.755 - (4679/T). Calculated therefrom were the values of PBr2, at 10° intervals, for I (over range 200-280°), II (280-390°), III (420-500° and IV (460-510°) which

are tabulated. By using these data calculations were made of the values of

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USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical analysis. Phase transitions

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Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11143

enthalpy and entropy changes (\triangle H and \triangle S) in reactions of successive dissociation of the bromides, on the assumption that these quantities are independent of the temperature within the interval under study. Determined were the values of enthalpy of formation A H (formation), (in kcal/mole) from metal and gaseous bromine, for I, II, III and IV, which are, respectively, -44.0; -33.6; -22.6; -10.75, and thus in good agreement with literature data. The actual existence of each bromide was confirmed by chemical analysis and recording of Debye X-ray patterns. It is shown that below 340°K IV must undergo exothermal disproportionation. The appreciable scattering of experimental data forces the authors to assume that platinum bromides possess the property of interacting with one another to form solid solutions. 2. Investigated was the temperature dependence of dissociation pressure of Ptcl₄ (V) (298-358°), Ptcl₃ (VI) (332-394°), Ptcl₂ (VII) (490-530°), and PtCI (VIII) (568-7620). On the basis of the data thus obtained the enthalpies of formation were calculated (kcal/mole): V -62.7; VI -48.1; VII -33.4; VIII -11.7; these values are in satisfactory agreement with literature data. Debye X-ray patterns of the platinum chlorides have

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USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. B-8
Physicochemical analysis. Phase transitions

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11143

demonstrated the actual existence of each substance. Experimental data for the reactions $2\text{PtCl}_n = 2\text{PtCl}_{n-1} + \text{Cl}_2$ are expressed by the equations $1\text{g P}_{\text{Cl}_2} = \text{A} - (\text{B/T})$, wherein A and B are: for n =4, 9.04, 6267.5; n = 3, 8. 42, 6303.1; n= 2, 10.59, 9131.1; n = 1, 4.36, 5114.9. On the basis of the data obtained and those found on the literature an analysis is made of the dependence of isobaric potential of the valency is discussed. It is shown that at low temperatures (< 600°) VIII must undergo exothermal disproportionation.

KOMANDROVSKTY, V. G.

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Akademiya nauk SSSR. Institut tochnoy makhaniki i vychislitel'noy tehhniki.

Trudy (Academy of Sciences of the USER, Institute of Precision Machanics and Computer Technology. Transactions) no. 2. Macadow, 1961. 447 p. 1000 copies printed. Contributors not mantiousd.

PREPUE: This collection of articles is intended for scientific and technical personnel concerned with machine translation and computer technology.

COVERAGE: This collection of articles of the Institute of Precision Machanics and Computer Technology, Academy of Sciences USBR, is the second in a series concerned with machine translation and mathematical linguistics. The collection contains reports written by members of the Machine-Translation Group of the Institute as well as reports by researchers from other organizations. The articles deal with various problems in machine translation, such as the possibility of an intermediate language, relationships between various languages, systems of recording, structure of

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•	Academy of Sciences (Cont.)							
	26. Ivanov, V. V. On the Acceptability of Phonological Patterns	398						
	27. Yefimov, M. B., and A. A. Zvonov. Attempt at Constructing a System of Graphic Analysis of Hieroglyphic Writing	415						
	28. Komendrovskiy, V. C. Problems of Constructing Reading Device	425						
: .	References	444						
* :	AVAIIABLE: Library of Congress							
	SUBJECT: Automation and Computer Engineering							
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IJP(c) . BB/GG/GD/JAT(BE) EWT(d)/T/EHP(1) L 33746-66 UR/0000/65/000/000/0169/0178 SOURCE CODE: ACC NR: AT6008567 AUTHOR: Komandrovskiy, V. G. ORG: none TITLE: A logical scheme for symbol identification SOURCE: AN SSSR. Institut nauchnov informatali. Chitayushchiye ustroystva (Resding devices). Hoscow, VINITI, 1965, 169-178 TOPIC TAGS: pattern recognition, character reading equipment, reading machine, STHESTIC DISTRIBUTION ABSTRACT: A logical scheme for identifying printed symbols on the basis of statistical features is presented. The scheme eliminates certain problems arising from varying size, slant and other differences in printed symbols. The method considers text symbols from the aspect of their length, width of the contour, minimum number of scanning lines needed for recognition, slope of the line, and other symbol properties. These properties are translated into statistical distributions of black-white fields. The final step of the method involves comparison with some standard introduced into the machine. An apriori determination of the statistical probability of distribution introduces an elementary self-reading aspect into the recognition process. An example is given in which an entire handwritten word is analyzed and its parameters are given in tabular form. Orig. art. has: 7 figures, 2 tables. OTH REF: 003 ORIG RET: 001/ SUBM DATE: 09Sep65/ SUB CODE: 09/ Cord 1/1 BLQ

TRCA, S.; MISINGER, J.; KOMANEC, J.

Apropos of the relation between the pathogenesis of inflammation after induced abortion and the duration of pregnancy. Cesk. gynek. 29 no.8:613-616 0 '64.

1. II. gyn.-por. klin. fak. vseob. lek. Karlovy University v Praze, (prednosta prof. dr. J. Lukas, DrSc.); Ustr. ustav zdravotnicke osvety v Praze, (reditelka MUDr. M. Taufrova, CSc.).

DOLEZAL, A., CSc.; KOMANEC, J.; TRNKA, V., doc, CSc.

Some considerations on causes of failure in the treatment of threat to the pregnancy. Cesk. gyn. 27 [41] no.6/7:439-445 Ag '62.

1. II. gyn.-por. klin. fak. vseob. lek. KU v Praze, prodnosta prof. dr. J. Lukas, DrSc.
(ABORTION THREATENED)

JAROS, Emil, inz.; KOMANEK, Zdenek, inz.

Technological projects of specialized centers. Stroj vyr 12 no.3:202 '64.

1. Branch of the Czechoslovak Scientific Technological Society at the Zavody presneho strojirenstvi, National Enterprise, Gottwaldov.

GONIKBERG, M.G.; DOROGOCHINSKIY, A.Z.; GAVRILOVA, A.Ye.; KOMANENKOVA, R.A.; MITROFANOV, M.G.; KUPRIYANOV, V.A.

Determination of the naphthalene and alkyl naphthalene content of stocks and dealkylation products. Neftekhimiia 3 no.6:916-921 N-D '63. (MIRA 17:3)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo i Groznenskiy neftyanoy nauchno-issledovatel skiy institut.

GONIKBERG, M.G.; GAVRILOVA, A. Ye.; ALEKSEYEV, Ye.F.; KOMANENKOVA, R.A.

Homogenous demethylation of methyl naphthenes. Neftekhimiia 4 no.2: 252-256 Mr-Ap*64 (MIRA 17:8)

1. Institut organicheskoy khimii AN SSSR i seni Zelinskogo

KOMONICH, D.

APPROVED FOR RELEASE: 06/13/2000 v. CIA-RDP86-00513R200824020006-9"

Romanich, D.

TITLE:

Synthesis of B-Chloro and B, B-Dichlorovinylalkyldichlorosilanes (Sintez B-Khlor- i B, B-dikhlorvinilalkildikhlor-silanov).

PERIODICAL:

Izvestiya AN SSSR, Otdelenie Khimicheskikh Nauk, 1957, Nr 11,pp. 1393-1395 (USSR)

ABSTRACT:

Here the best conditions for a synthesis of CICH = CHSiCl, as well as the alkyl- and alkoxy-derivatives of them, among them also the difunctional (in the silicon atom) 8-chlorovinylethylenedichlorosilane, were obtained. The development of C. L. Agre's (reference 2) was continued here and it was ascertained that the trichloroethylene can also be condensed with the alkyldichlorosilanes. This is a very simple way for the synthesis of the dichlorodialkyl-silanes with the functional groups in the alkyl-chain

 $\text{Cl}_2\text{C} = \text{CHCl} + \text{HSiRCl}_2 \longrightarrow \text{Cl}_2\text{C} = \text{CHSiCl}_2\text{R} + \text{HCl}$ where R = CH₃ and C₂H₅. It can be judged on the course of

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AGARBICHANU, I.I. [Agarbiceanu, I.]; BLANARU, L.; DRAGANESKU, V.; IONESKU-PALLAS, N.I. [Ionesco-Pallas, N.J.]; KOMANICHU, N.; TATU, V.

Determining the nuclear magnetic moment of the isotope Hg199 from the hyperfine structure of the HgI 5461 Å line. Opt.i spektr. 10 no.3:297-300 Mr '61. (MIRA 14:8)

1. Institut atomnoy fiziki AN Rumynskoy Narodnoy Respubliki, Bukharest.

(Nuclear moments) (Mercury-Isotopes) (Interferometry)

ACCESSION NR: AP4020919

8/0051/64/016/002/0182/0186

AUTHOR: Draganesku, V.; Komanichu, N.; Tatu, V.; Ionesku-Pallas, N.Zh.

TITLE: Hyperfine and isotope structure of the 5535 Anstrom line of Ba I

SOURCE: Optika i spektroskopiya, v.16, no.2, 1964, 182-186

TOPIC TAGS: hyperfine structure, isotope structure, isotope shift, barium(I), barium(I) resonance line, his theory, LS coupling calculations

ABSTRACT: The 5535 Å Ba I line has been investigated by H.Kopefermann and G.Wessel (Nachr.Akad.Wissensch.,Gottingen,Math.-Phys.Ko.2,53,1948), O.H.Arroe (Phys.Rev.,79,836,1950) and later by D.A.Jackson (Ibid.,106,948,1957 and Proc.Roy.Soc.,A263,289,1961), but only the last, who used absorption in an atomic beam, was able to discern hyperfine structure. The present theoretical and experimental investigation of this resonance line, associated with the Gs² 15₀--Gs6p ¹P₁ transition, was undertaken to check the experimental data and provide a theoretical explanation thereof. (Jackson noted a miscrepancy between the observed and calculated intensities and hypothesized a small hfs (10 mK) for the odd isotopes.) The present experimental work was also carried out by the absorption in an atomic beam technique; the setup

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ACCESSION NR: APLO20919

for obtaining the atomic beam was an improved version of the apparatus described by V.Draganesku (Opt.i spektro., 10,301,1961) and included provision for water-cooling of the evaporator in order to enhance the vacuum. A special device consisting of two mirrors with shits was employed to make the light beam bass several times through the atomic; beam, in order to obtain substantial absorption without recourse to increasing the evaporator temperature. The light source was a hollow cathode tube into which the bartum was introduced in the form of BaCl2. The spectroscopic instrument was an ISP-22 spectrograph crossed with a Fabry-Perot etalon; the interference patterns were photographed with an exposure of under 15 min and scanned on a Zeiss microphotometer. There were resolved in all 7 components arranged almost symmetrically with respectato the central 138 component in an interval of about 40 mK (1 mK $= 10^{-3}$ cm⁻¹). The experimental data are compared in a table with the results of calculations based on the intermediate coupling theory of G.Breit and L.A. Wills (Phys. Rev. 44, 470, 1933), assuming Russell-Saunders (L-S) coupling. The computation formulas are adduced, and corrections are made for finite nuclear size and the nuclear magnetism distribution. The agreement between the experimental data and calculated values is satisfactory. The theory at present is not adequate for deciding for or against Jackson's hypothesis. The proposed interpretation allows of explaining some

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KOMANITSKTY, V.; PLATZEROVA, L.

Determining of the fractional composition of titanium dioxide. Khim. volok. no.6:38-41 '65. (MIRA 18:12)

1. Narodnoye predpriyatiye KhEMKO, zavod Gummene, Chekhoslo-vatskaya Sotsialisticheskaya Respublika.

KOMANOV, A. (Major)

"Problems of Utilization of Atomic Energy," Part I., Krasnaya Zvezda, No.8, page 3, January 11, 1955

Summary of an article - D 230702, 12 May 55

KOMANOV, B.O.; SHAKIROV, E.Sh.

Mesozoic age of magnetites from the skarn formations of the Cava deposit. Dokl. AN SSSR 160 no.6:1378-1380 F '65.

(MIRA 18:2)

1. Submitted June 30, 1964.